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TITLE : PRODUCTION OF MAGNETIC POWDER FOR ANISOTROPIC BOND MAGNET

ABSTRACT : PURPOSE: To obtain a magnetic powder for anisotropic bond magnet having high coercive force and residual magnetic flux density without complicated production process by pulverizing an alloy essentially comprising specified compsn. in a perfluorocarbon inert liquid by mechanical pulverization method to obtain a specified average particle size.

CONSTITUTION: An alloy essentially comprising by atomic %, 10-30% R, 2-28% B, 65-82% M (R is one or more rare earth elements including Y and M is one or more elements of Fe, Co, and Ni) is prepared by arc melting method. This alloy is roughly pulverized and then further pulverized to 0.5-50 μ m average particle size in a perfluorocarbon inert liquid by mechanical pulverization method such as a ball mill to obtain the objective magnetic powder.

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